

ROOFS *of* SECURITY



Truscon "Steeldeck"
Roofs With
Built-Up Roofing



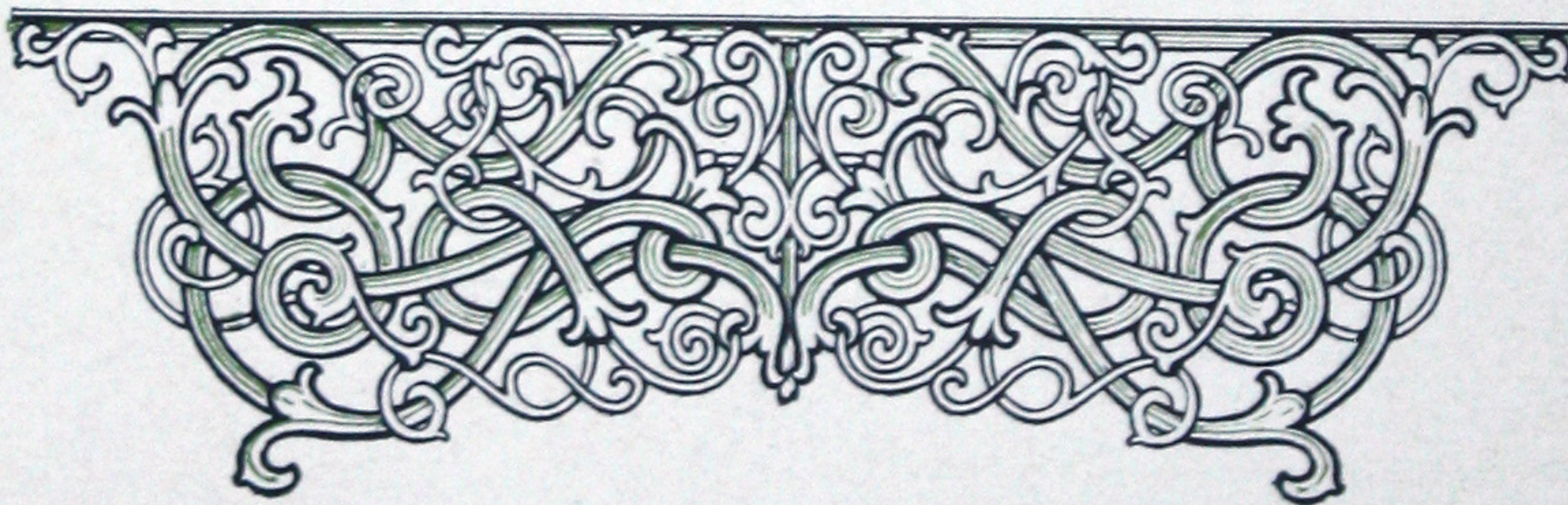
Quick Action With Assured Security



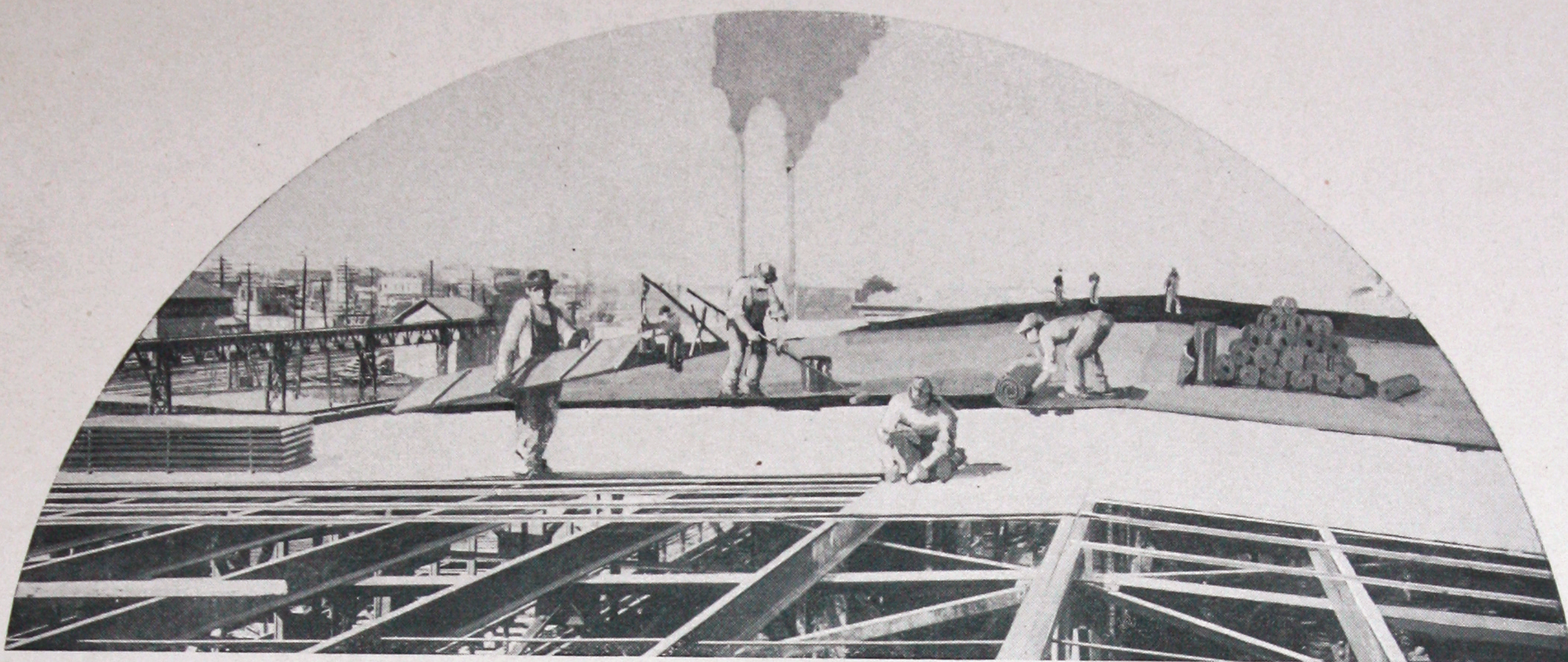
TEELDECK" is the trade name of an ideal roof decking manufactured by the Truscon Steel Company. It is used on all kinds of buildings whose roof design is not cut up by gables, dormers or gutters.

The great speed with which "Steeldeck" can be laid is one of its characteristic points of merit. Not only is it simple in design but it is so precisely constructed as to preclude all delay in erecting a strong and rigid roof. This strength and rigidity assure security. Furthermore, the nature of the material used permits applying standard built-up roofing immediately and regardless of weather conditions which might impede this step where other roof decking is used.

"Steeldeck" is a standardized Truscon product. It is manufactured on a production basis that makes possible a market price much lower than that of any other roof decking, which approximates the superiority achieved by the combined features of "Steeldeck."



TRUSCON
"STEELDECK" ROOFS
With Built-Up Roofing



Truscon "Steeldeck" Roof under construction. Note how closely the laying of the built-up roofing follows placing of sub-purlins and deck plates. No delay necessary regardless of weather conditions.

Truscon "Steeldeck" Roofs Are Sentinels of Safety

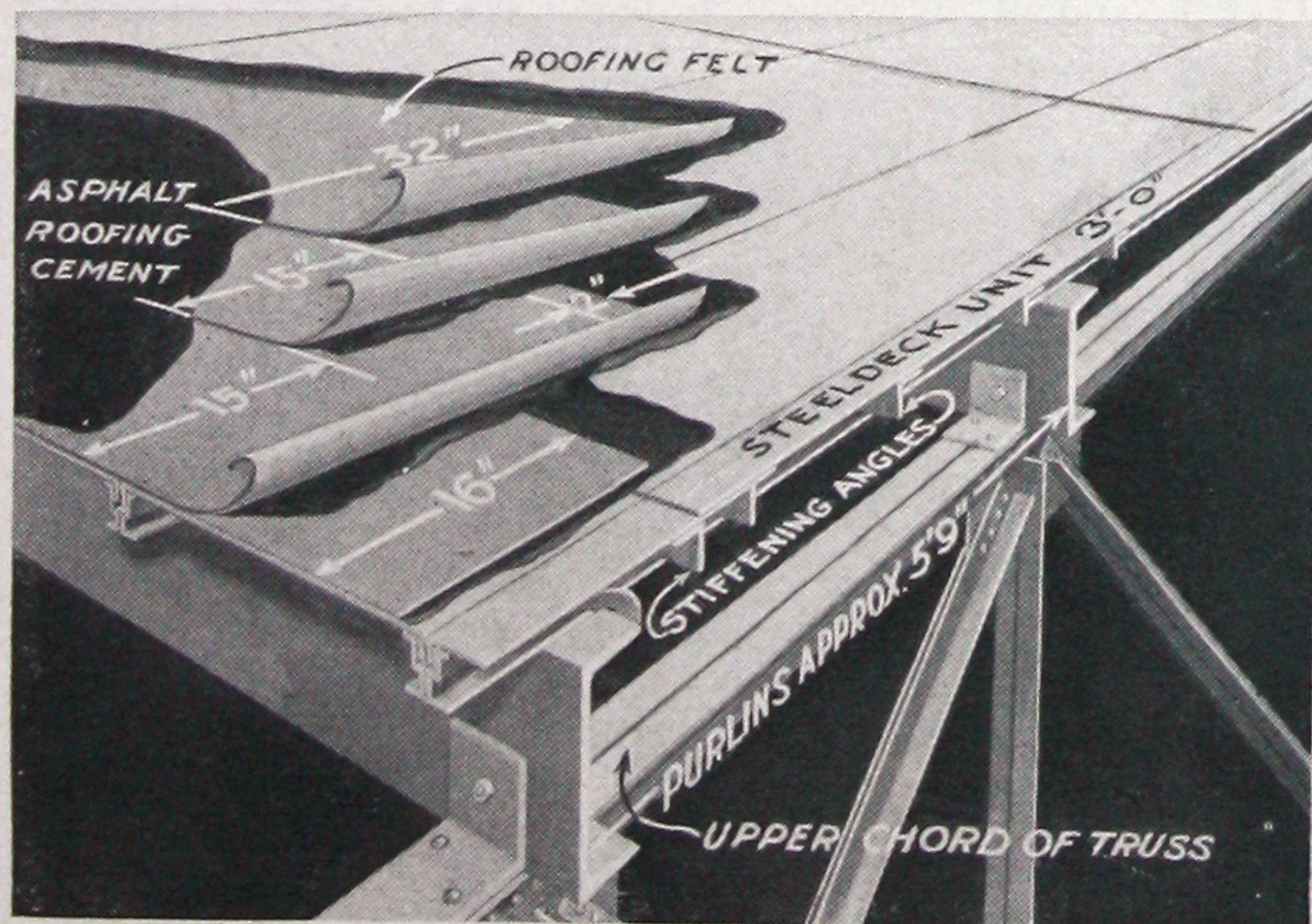
TRUSCON "STEELDECK" is a roof decking manufactured from 18 gauge alloy copper steel plates. These plates are fabricated sections formed and reinforced to support specified roof loads. Truscon "Steeldeck", waterproofed with any standard built-up roofing, provides an ideal construction.

This product stands alone above the mass of common light weight roof decking that is regarded as a menace and a fire risk. It gives the builder a roof that is a guardian of property—a sentinel of safety.

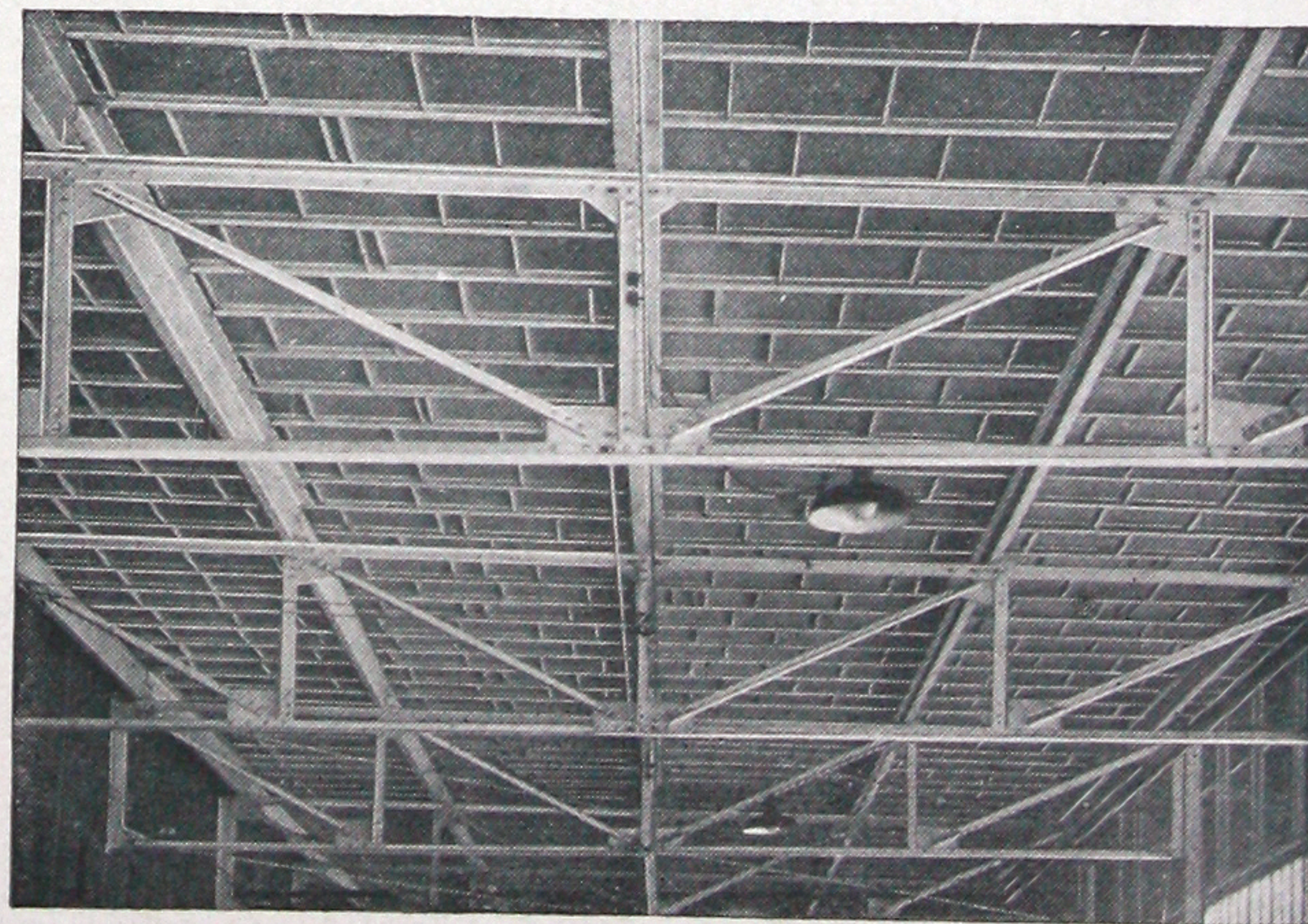
"Steeldeck" with built-up roofing is the

most simply constructed non-combustible roof on the market. Although competently strong and rigid, the light weight construction of "Steeldeck" develops notable savings in the weight of the framing members.

Because of its simple design and construction it is laid with great speed and assured security. Unlike most types of roof decks, the built-up waterproofing can be applied immediately, regardless of temperature or other weather conditions, without absorption of moisture or waiting for evaporation to take place. Quick action with assured security!

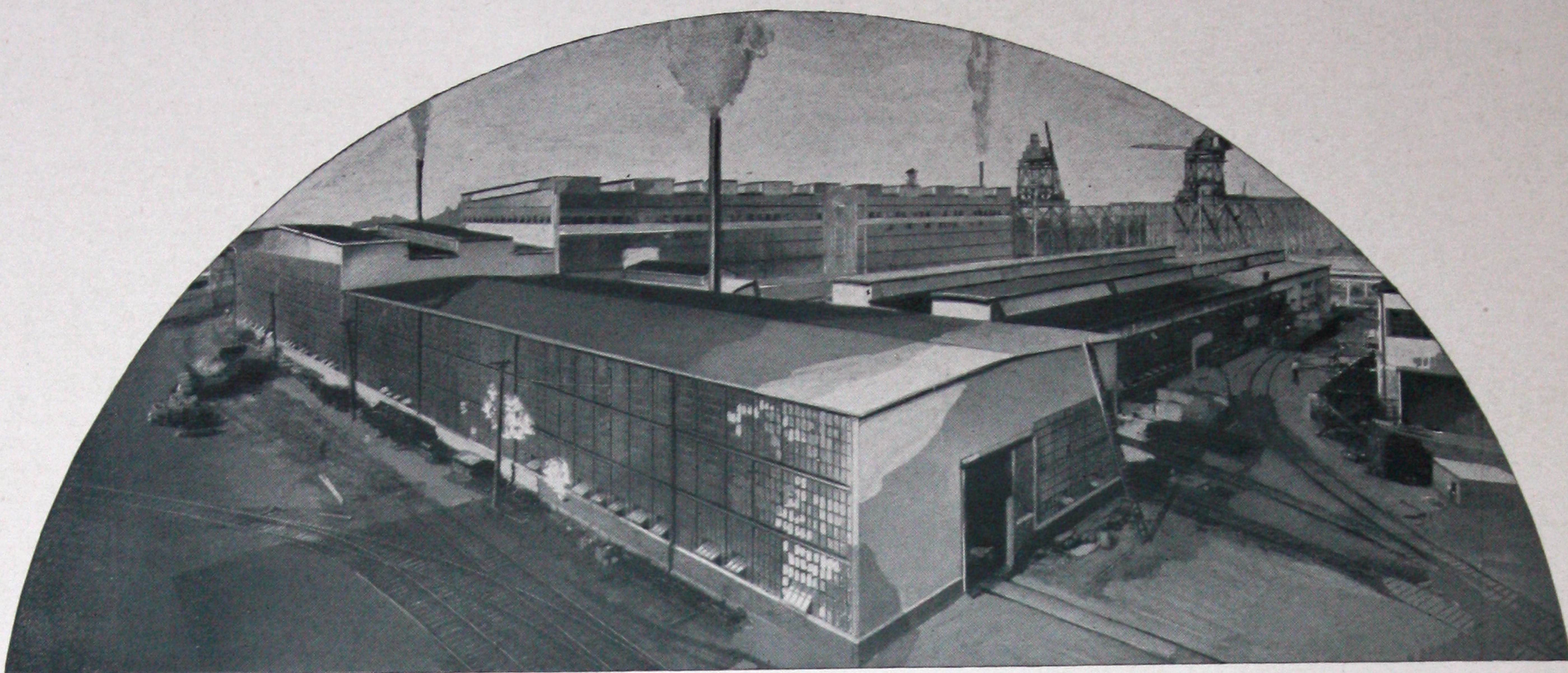


Top view of Truscon "Steeldeck" Roof showing how positive bond is secured between roof decking and built-up roofing.



Underside view of Truscon "Steeldeck" Roof showing clean smooth surface—easily kept painted for light reflection.

TRUSCON
"STEELDECK" ROOFS
With Built-Up Roofing



The Truscon "Steeldeck" Roof is a guardian of property, whether it be on an entire industrial plant, a school, hotel, office building, garage, theatre or an apartment house.

The Best Light Weight Non-Combustible Roof Deck

TRUSCON "STEELDECK" provides a smooth, solid surface which is ideal for the application of any standard roofing material. Its use eliminates any possible damage to the built-up roofing due to expansion and contraction. It cannot warp or shrink and there are no bulges or waves, protrusions, holes or open spaces to interfere with the proper construction of built-up roofing or cause breaks as the workmen walk over it.

There are no nails, bolts or rivets to work loose and punch up through the waterproofing. By applying insulating materials before the waterproof membrane is laid, Truscon "Steeldeck" can be built up to any desired degree of insulation. This conserves heat and completely eliminates condensation.

"Steeldeck" provides a roof exceedingly strong and rigid. Although designed for a live load of 40 pounds per square foot it has been tested to 160 pounds per square foot without failure. This alloy of copper and steel insures permanency. These feat-

ures, thus combined, make "Steeldeck" the lightest, non-combustible, ideal roof upon which to apply an insulated built-up roofing, with absolute assurance that a positive and permanent bond will result.

All these qualities, distinctive and most desirable, constitute significant reasons for the widespread acceptance accorded "Steeldeck" by architects and engineers and expressed by its growing use on hotels, apartment houses, public garage, theatres, warehouses, telephone exchanges, dormitories, schools and industrial buildings of all kinds. When used on industrial buildings where the roof also serves as a ceiling, "Steeldeck" presents a pleasingly trim appearance and its painted surface is an effective light reflector.

"Steeldeck" is not recommended for roofs of complicated design; but for buildings having straight-away roofs, either flat or pitched, "Steeldeck" can be used at less cost than any other roof decking which combines all of these features.

TRUSCON
"STEELDECK" ROOFS
With Built-Up Roofing

SPECIFICATIONS

for Truscon "Steeldeck" Roof

NOTE: When you have decided that the use of a Truscon "Steeldeck" roof will best serve the interests of your client, this brief outline can be used as basis for the specifications.

General

- 1 The roof deck shall be Truscon "Steeldeck" as manufactured by the Truscon Steel Company of Youngstown, Ohio. This shall consist of steel deck plates and their supporting members called sub-purlins. No substitution will be permitted without the approval of the architect.

Materials

- 2 The roof plates and sub-purlins shall be made of Copper Alloy Steel. The roof plates shall be made of 18 gauge sheet steel. The sub-purlins shall be of the proper weight and size to support the roof loads over the required spans. All materials shall be designed and manufactured according to the manufacturer's standards.

Construction

- 3 The roof plates shall be supported by, and firmly attached to the sub-purlins, which in turn are rigidly attached to their supporting members.
- 4 The materials shall be so formed that there shall be no projections above the level surface of the deck plates.

Design

- 5 The stressed members are to be designed in accordance with the loading require-

ments and permissible stresses of the local building code.

Erection

- 6 The materials and parts shall be erected in accordance with the manufacturer's instructions and specifications.

Shop Paint

- 7 The upper surface of Truscon "Steeldeck" roof plates shall receive, in the shop, one priming coat of black asphalt paint. The under surface of the "Steeldeck" roof plates, reinforcing angles and sub-purlins shall receive a shop coat of gray ceiling paint.

Waterproofing

- 8 The Truscon "Steeldeck" roof shall be waterproofed with built-up roofing, laid in accordance with the specifications of the manufacturers of such roofing materials and as specified in another paragraph.

NOTE:

Insulation

When it is desired to insulate the roof deck with additional insulating materials, see the data and specifications furnished by the manufacturers of these products.

The Truscon "Steeldeck" Roofs Permanence and Speed of Installation

Built of Copper Alloy Steel; it is light, strong, permanent; smooth, solid and simply constructed to any desired degree to prevent heat losses.

It has no ridges or open spaces; no nails or bolts to jeopardize the usefulness or longevity of the roof.

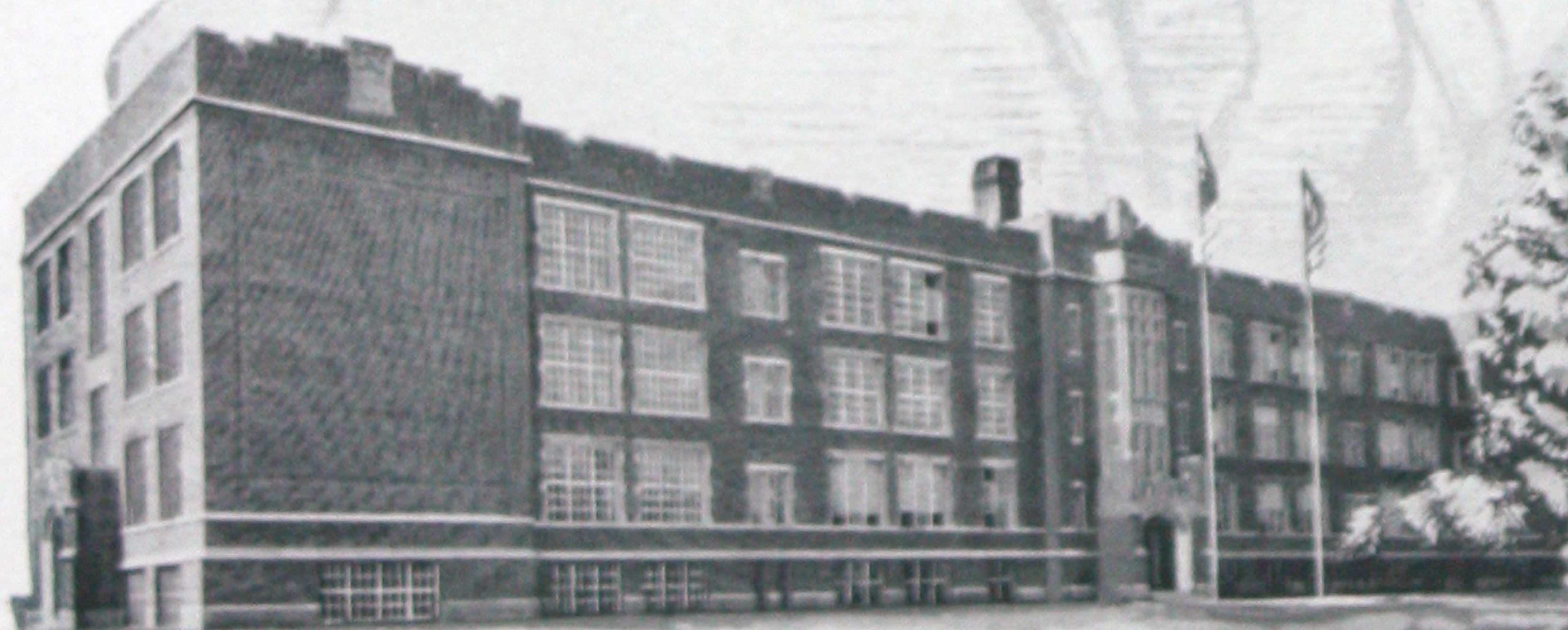
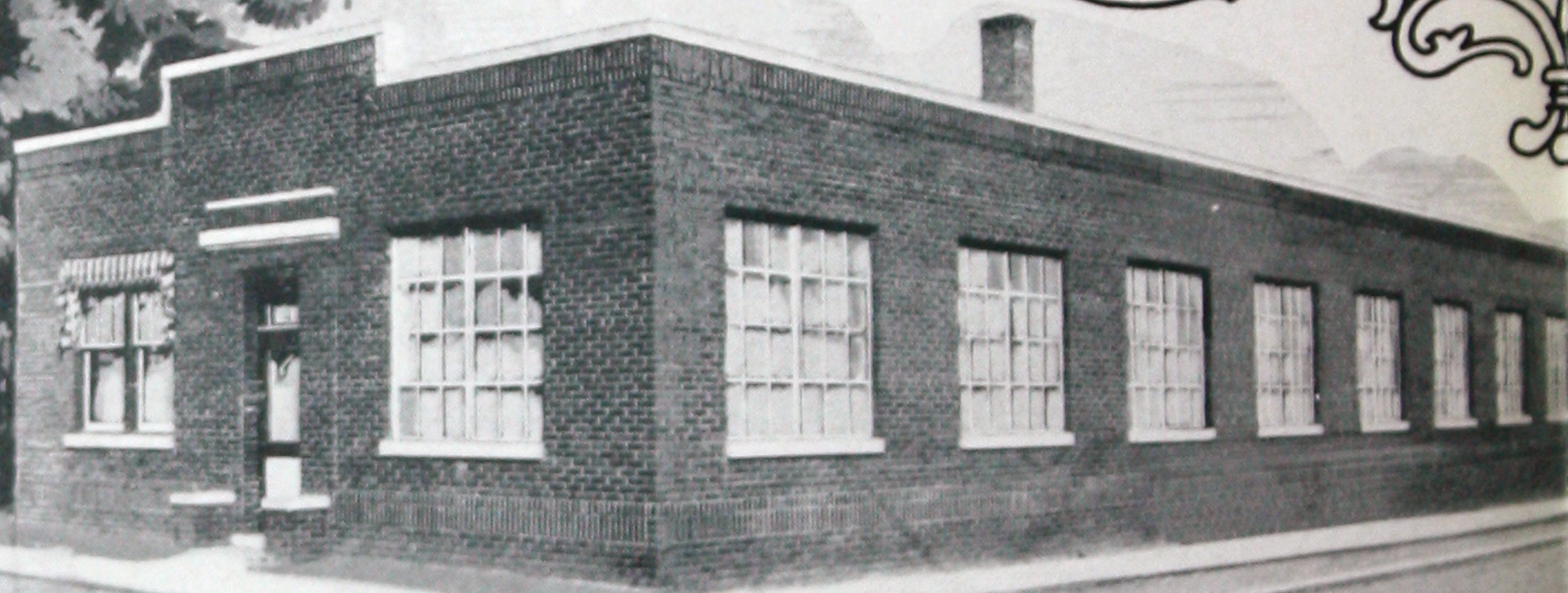
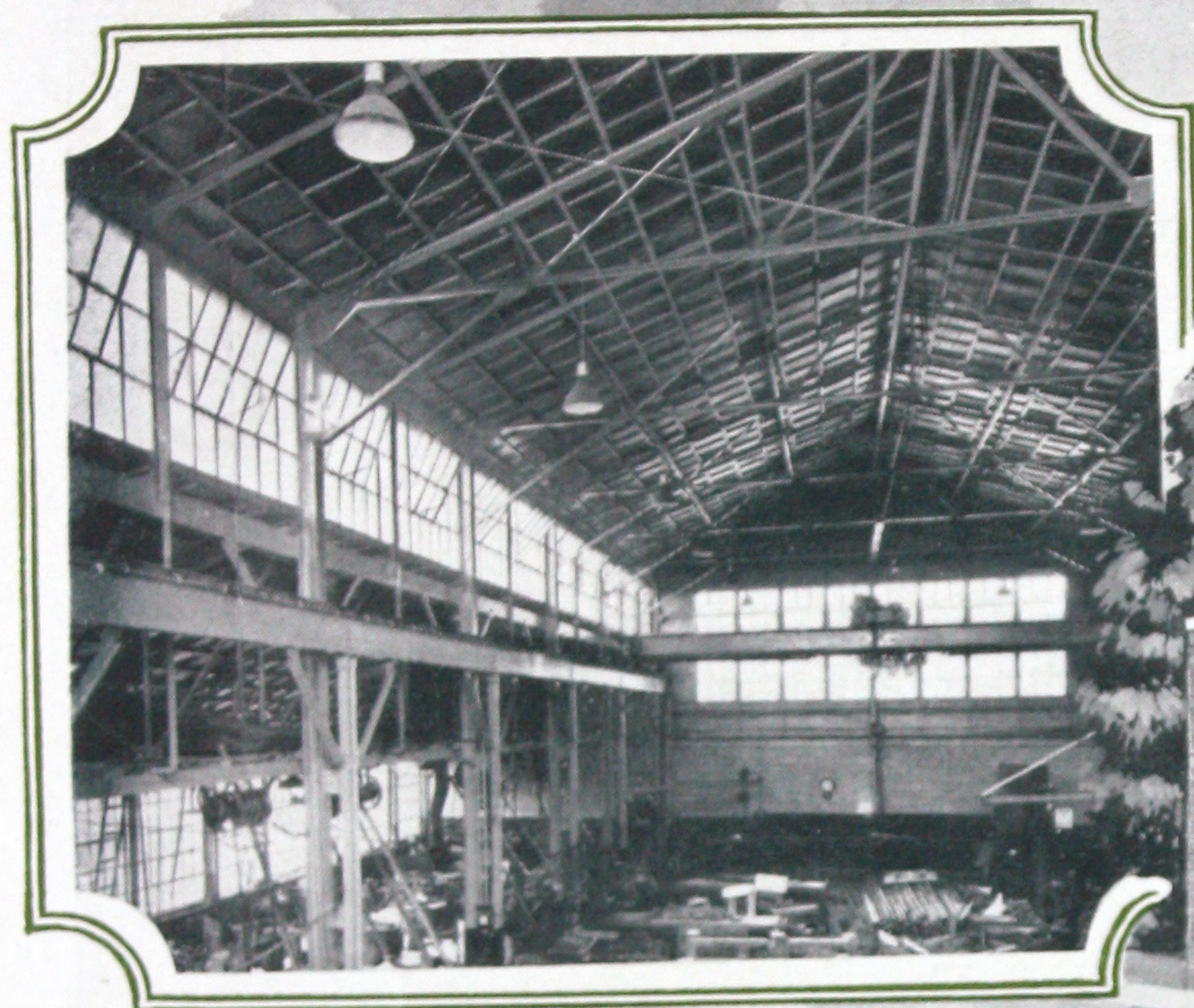
It does not expand or contract, warp or shrink, thereby avoiding the tearing or breaking of the built-up roof.

It weighs 3.5 lbs. per square foot of surface, resulting in an appreciable savings in the weight and cost of the building.

It affords quick action with assured security at once regardless of weather conditions.

Truscon "Steeldeck" is the best non-combustible roof for its permanence, strength and speed of erection and the safety on which insulation and built-up roofing can be depended for safety.

TRUSCON
"STEELDECK"
With Built-Up Roofing



Roof Combines Strength, of Erection at Low Cost

strong and rigid; non-combustible and
constructed; it can be insulated in
S.

nuts, bolts, rivets or projections to
the built-up roofing.

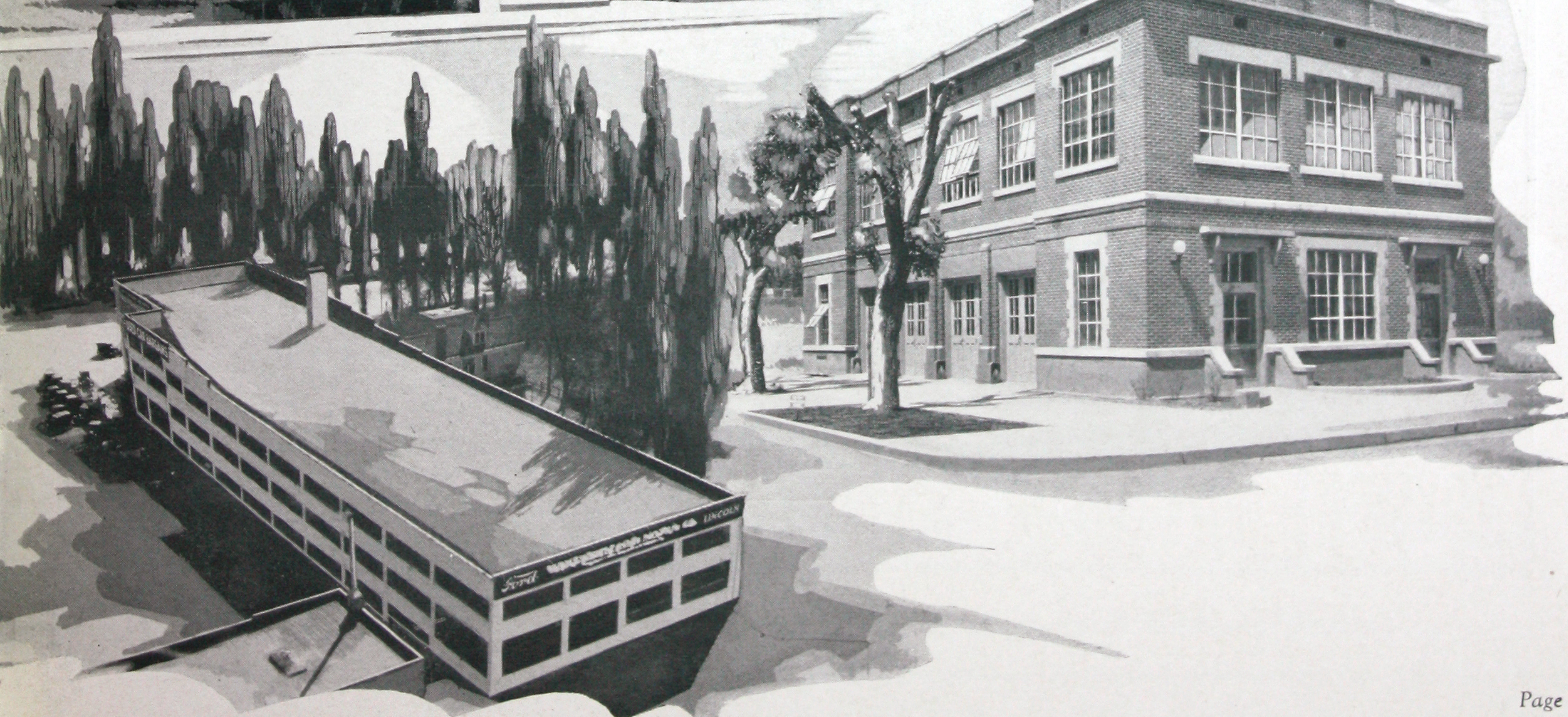
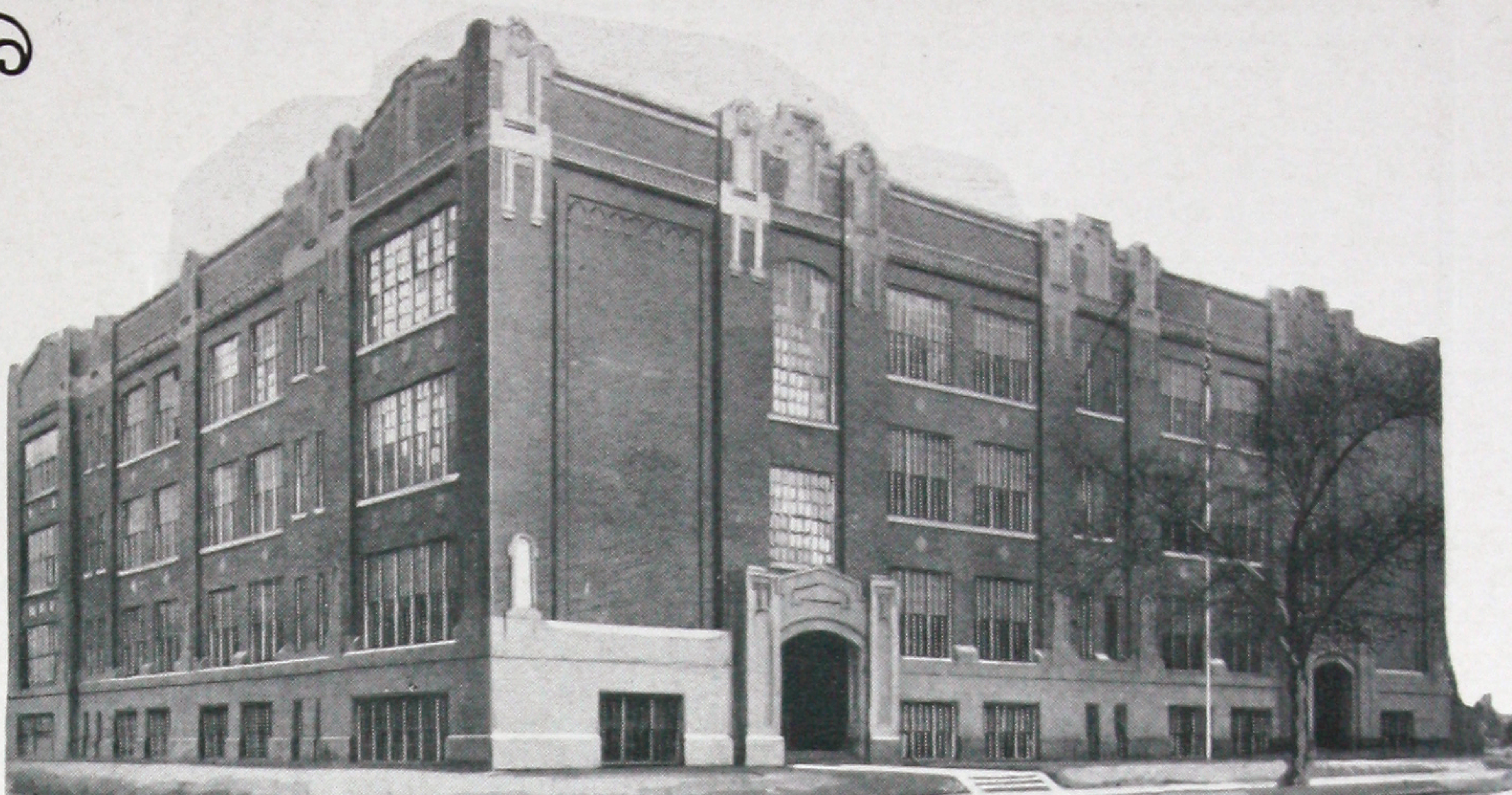
or shrink. This eliminates the possibil-
t-up roofing from these causes.

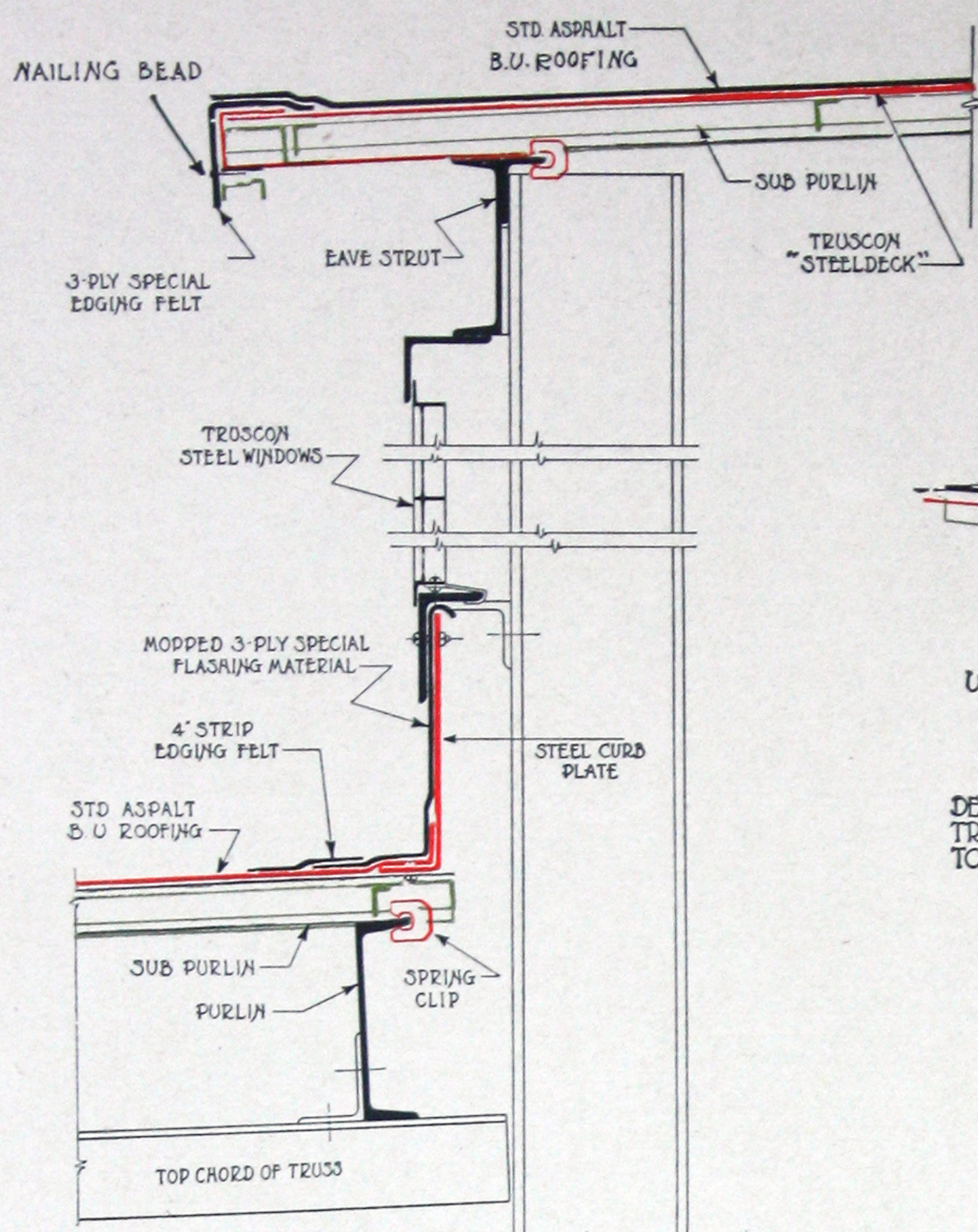
surface. This small dead load develops
cost of the roof framing.

urity. The built-up roofing is applied

combustible roof deck which combines
ion at low cost. It is the only base up-
g can be constructed with positive assur-

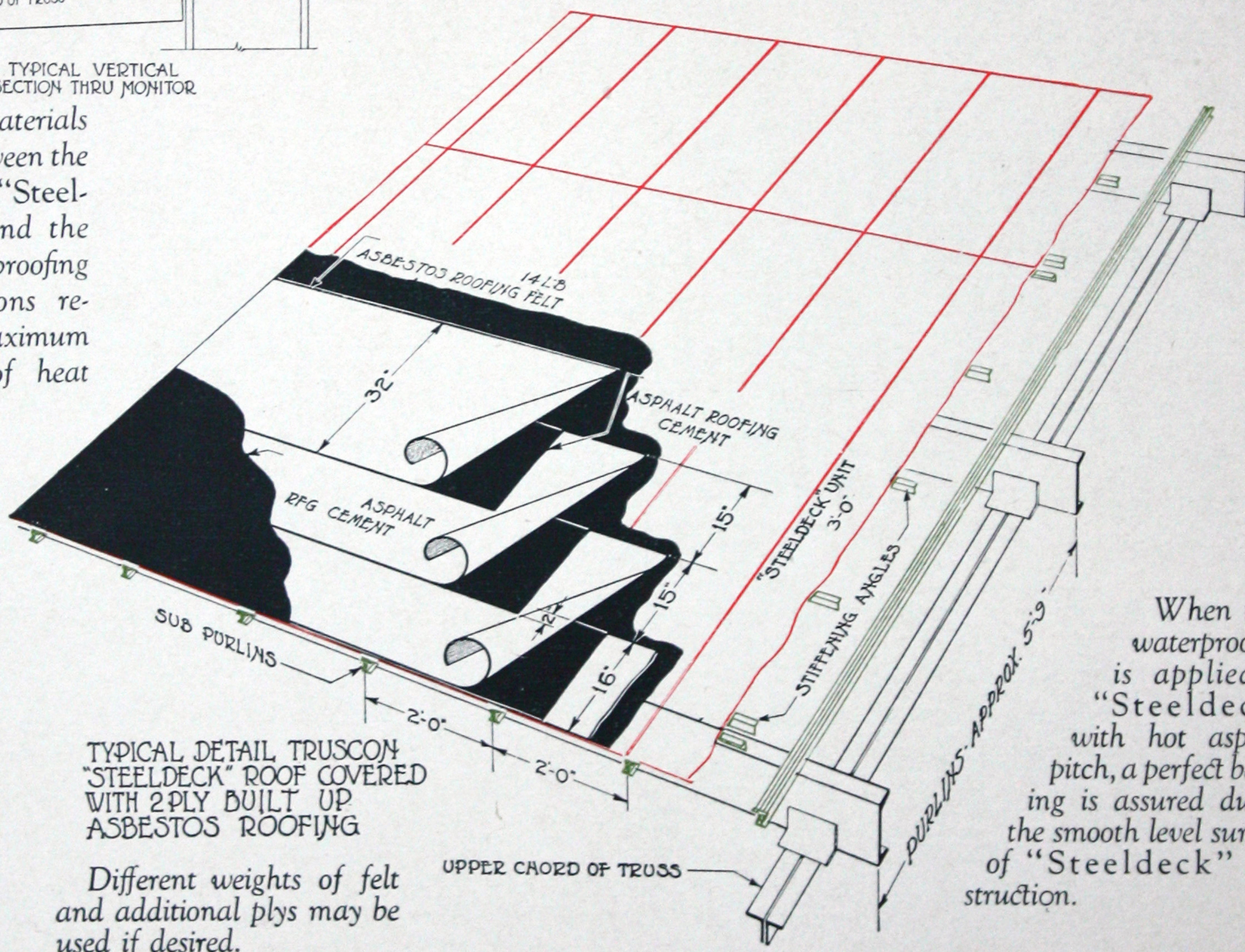
SCON
CK' ROOFS
Up Roofing





TYPICAL VERTICAL SECTION THRU MONITOR

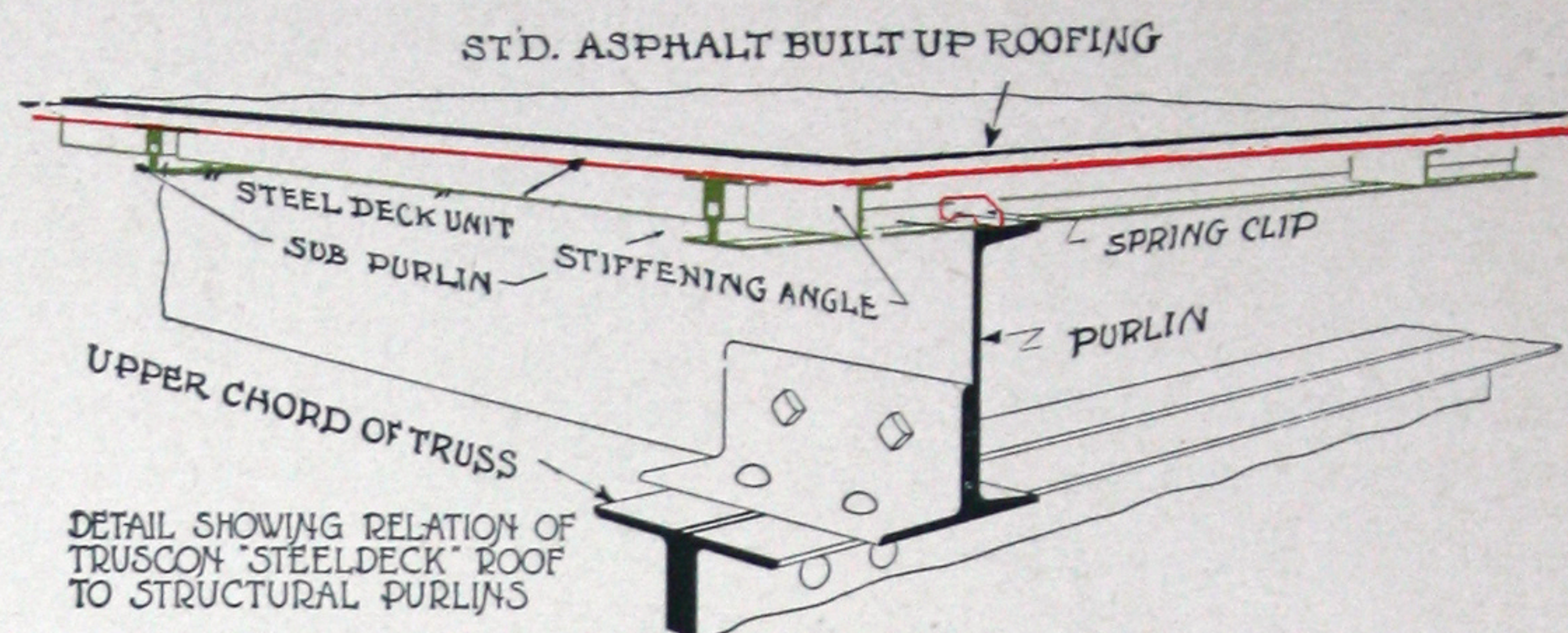
Insulating materials are placed between the surface of the "Steeldeck" roof and the built up waterproofing when conditions require the maximum conservation of heat units.



TYPICAL DETAIL TRUSCON "STEELDECK" ROOF COVERED WITH 2-PLY BUILT UP ASBESTOS ROOFING

Different weights of felt and additional plies may be used if desired.

Note (left) the perfect waterproofing at the eave line. The simplicity of the construction details of this curb provides an easy proficient method of waterproofing.



DETAIL SHOWING RELATION OF TRUSCON "STEELDECK" ROOF TO STRUCTURAL PURLINS

Simplicity of construction greatly facilitates rapid laying of "Steeldeck" with assured security under all kinds of weather conditions. Observe that no nails, rivets or bolts are used yet the construction is strong and rigid though light.

When the waterproofing is applied to "Steeldeck" with hot asphalt pitch, a perfect bonding is assured due to the smooth level surface of "Steeldeck" construction.

TRUSCON
"STEELDECK" ROOFS
With Built-Up Roofing

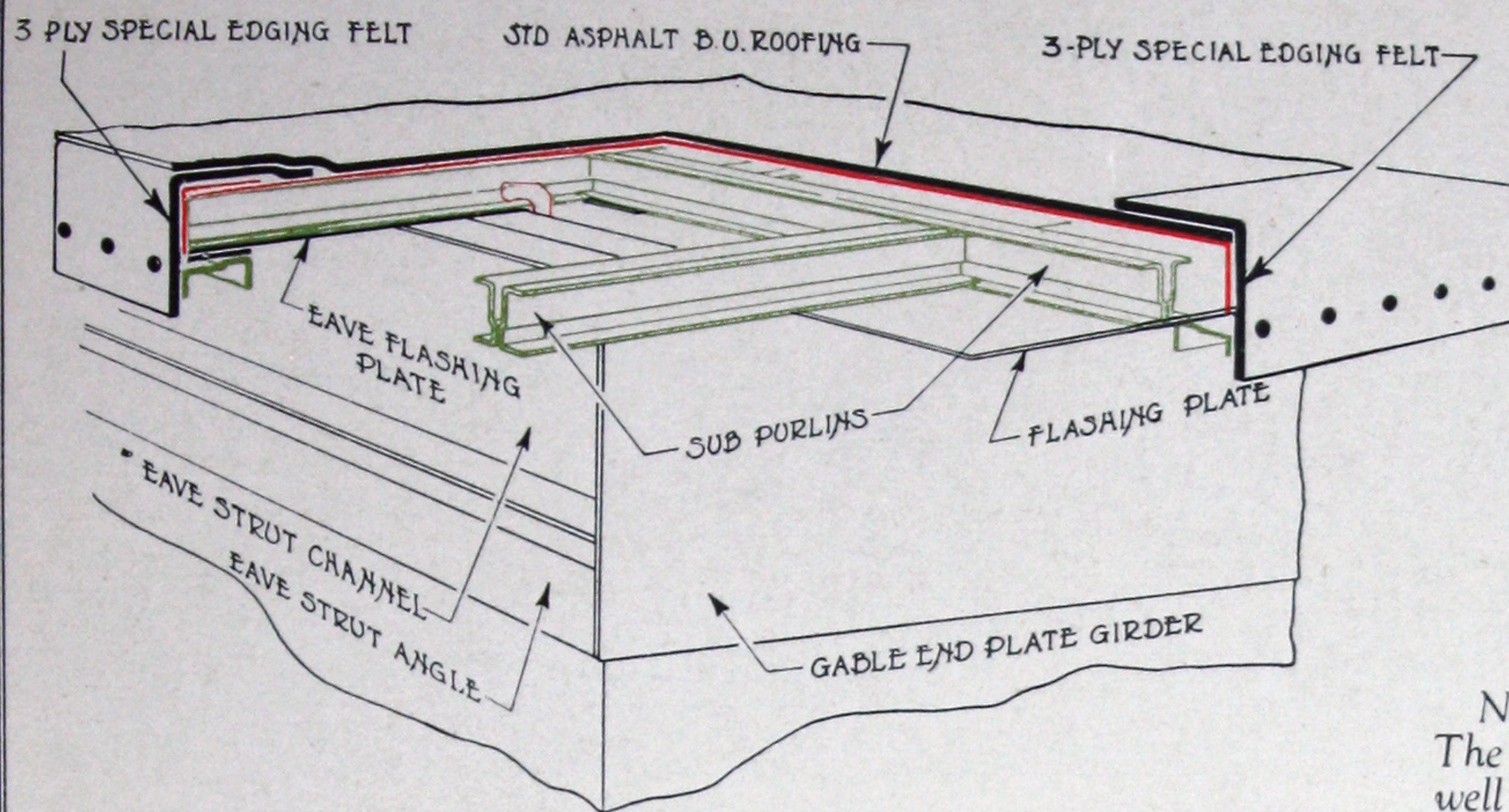
GENERAL DETAILS OF
TRUSCON STEELDECK ROOFS
TRUSCON STEEL COMPANY

SD-1

YOUNGSTOWN, OHIO

JAN. 1925

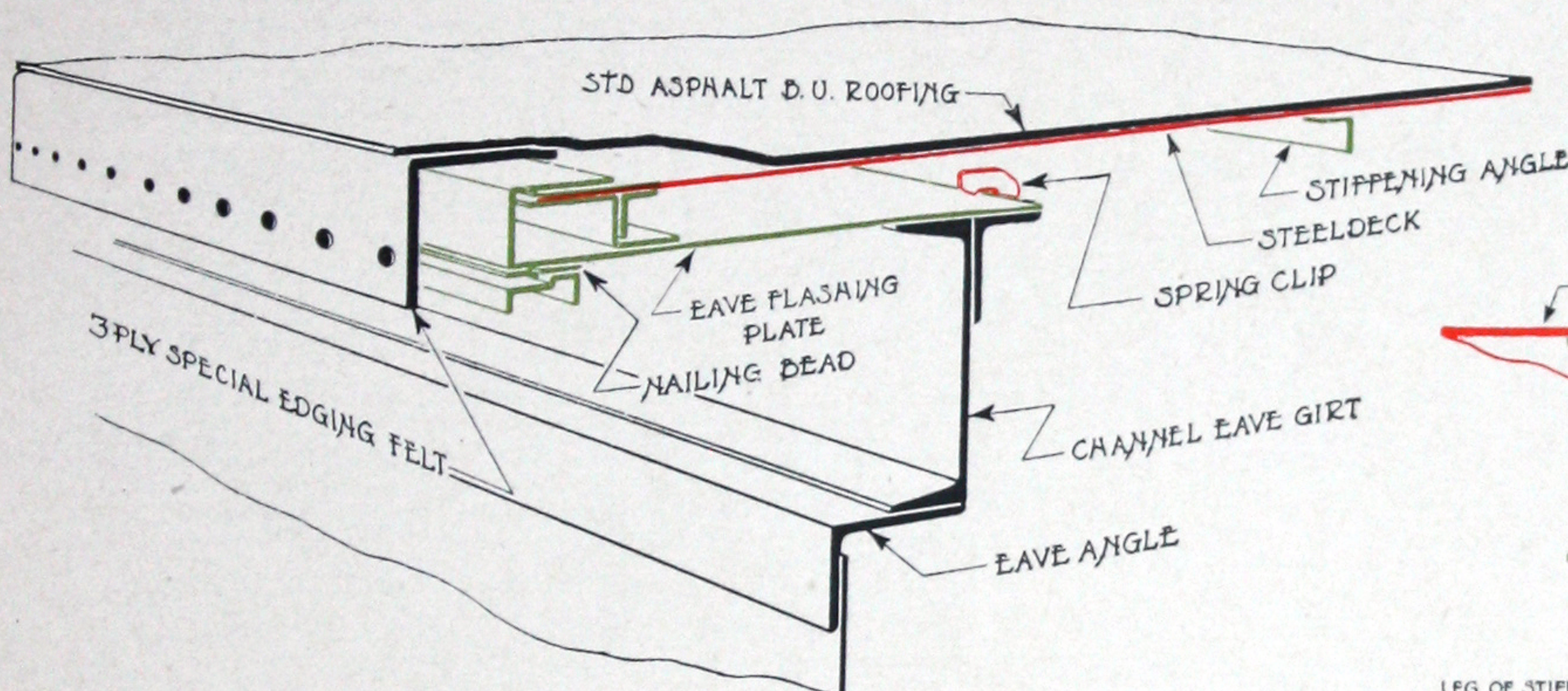
Truscon "Steeldeck" Roofs are Roofs of Security as a Study of these Details Will Prove.



TYPICAL SECTIONAL VIEW AT CORNER SHOWING EAVE AND GABLE END.

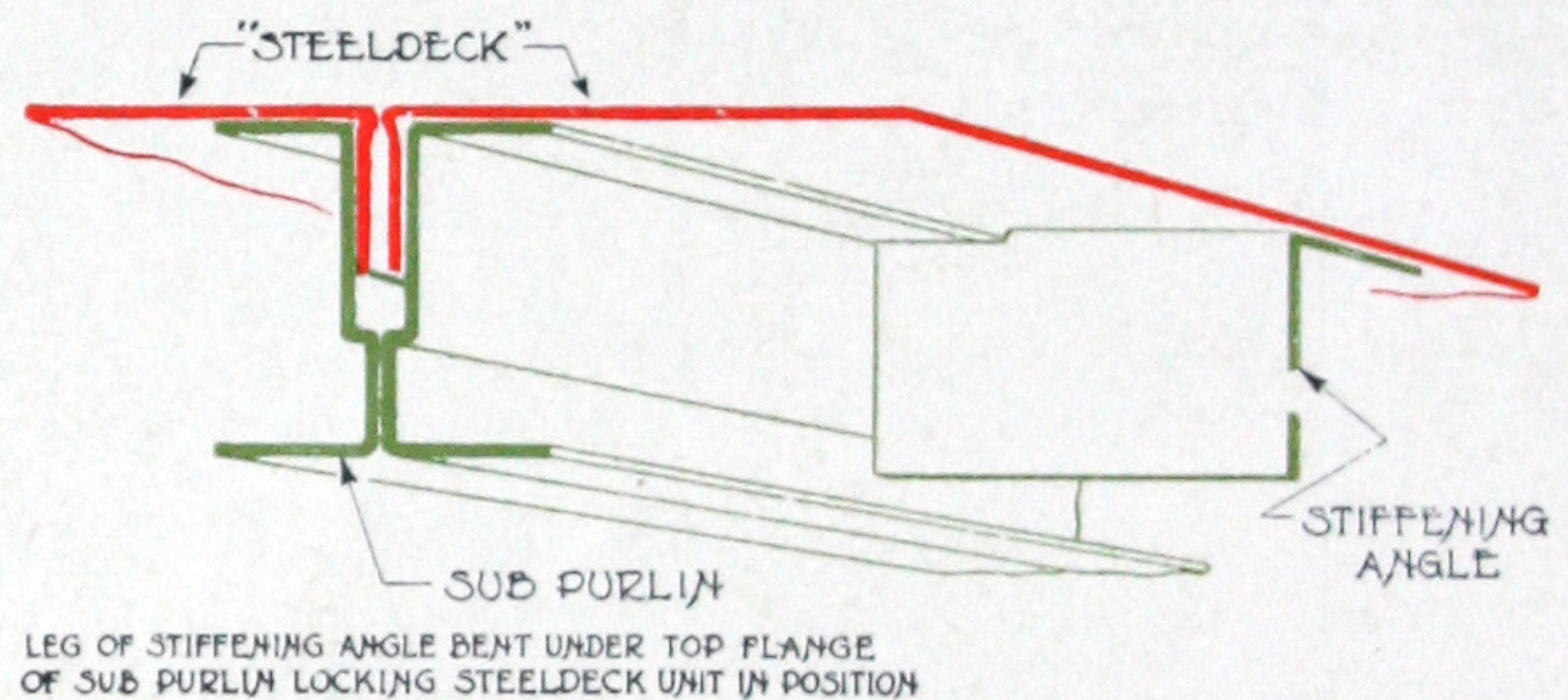
Insulating materials are placed between the surface of the "Steeldeck" roof and the built up waterproofing when conditions require the maximum conservation of heat units.

Note special construction at eave. The edging felt is nailed in place as well as being cemented, thus eliminating all danger of lifting and tearing by wind action.

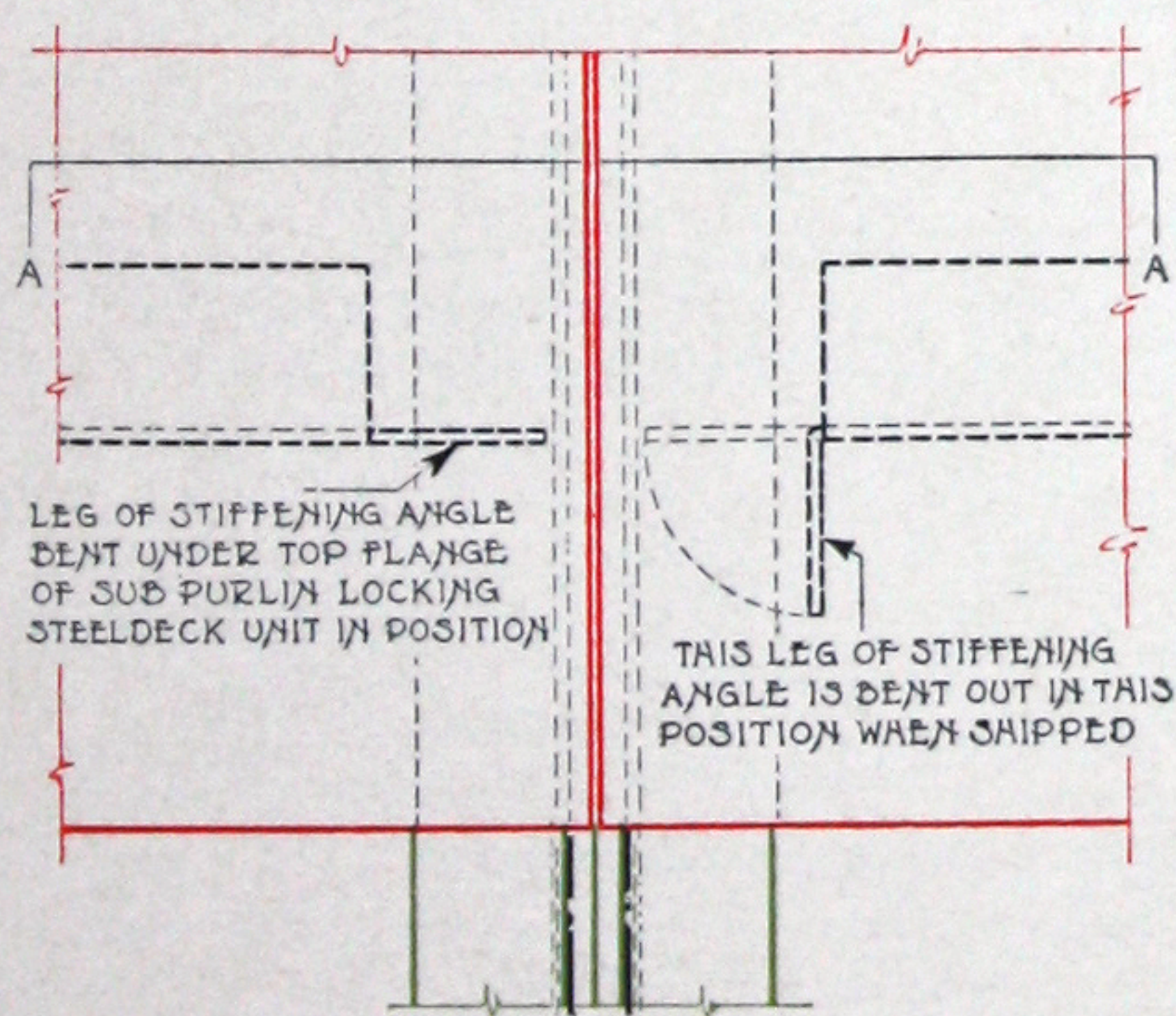


TYPICAL SECTIONAL VIEW AT EAVE

Due to the combined "Steeldeck" and return plate perfect sealing is provided.

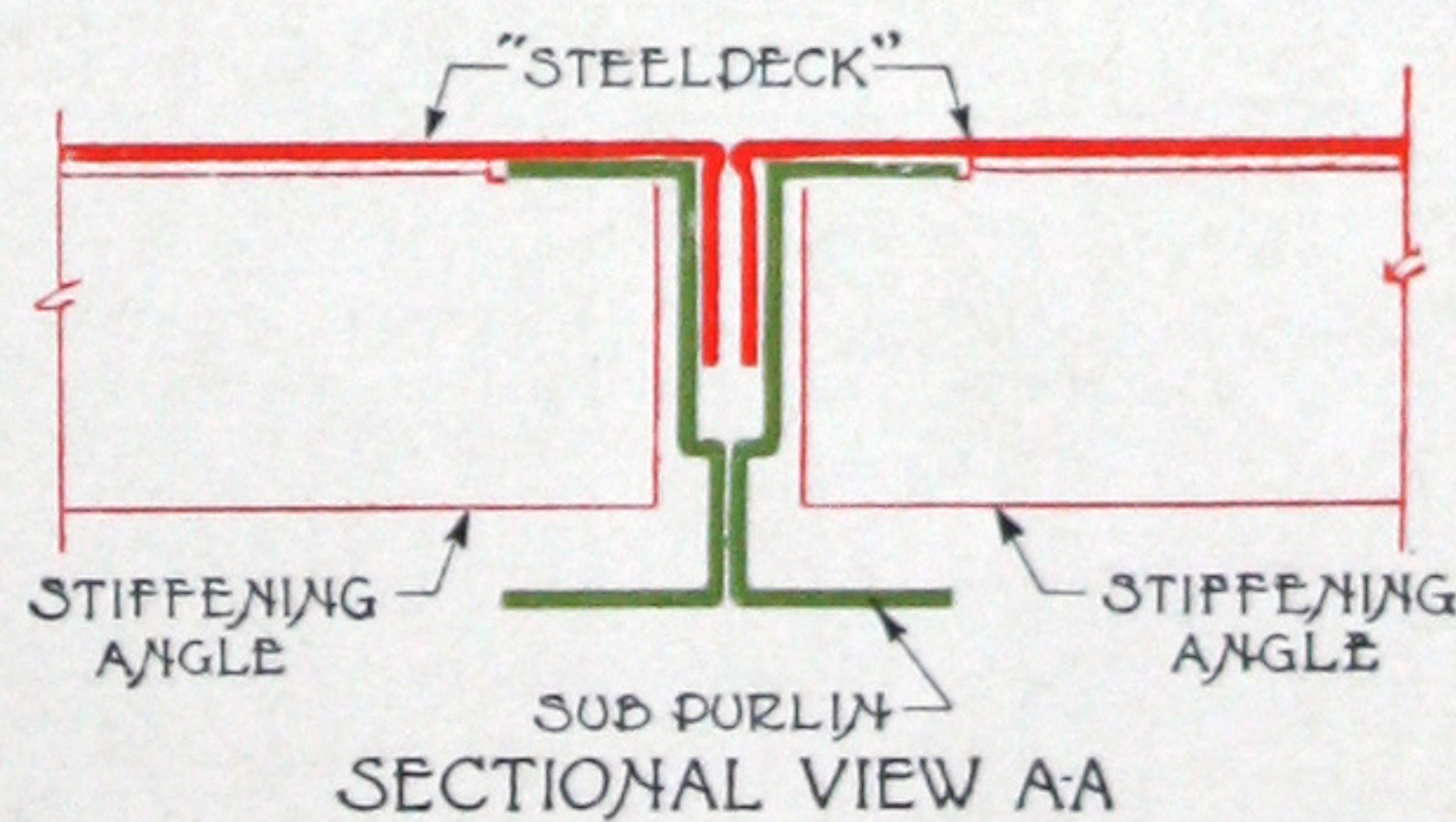


The use of the stiffening angle to lock the deck plates in place eliminates all bolts, rivets, screws and nails which might work loose and punch through the roofing material.

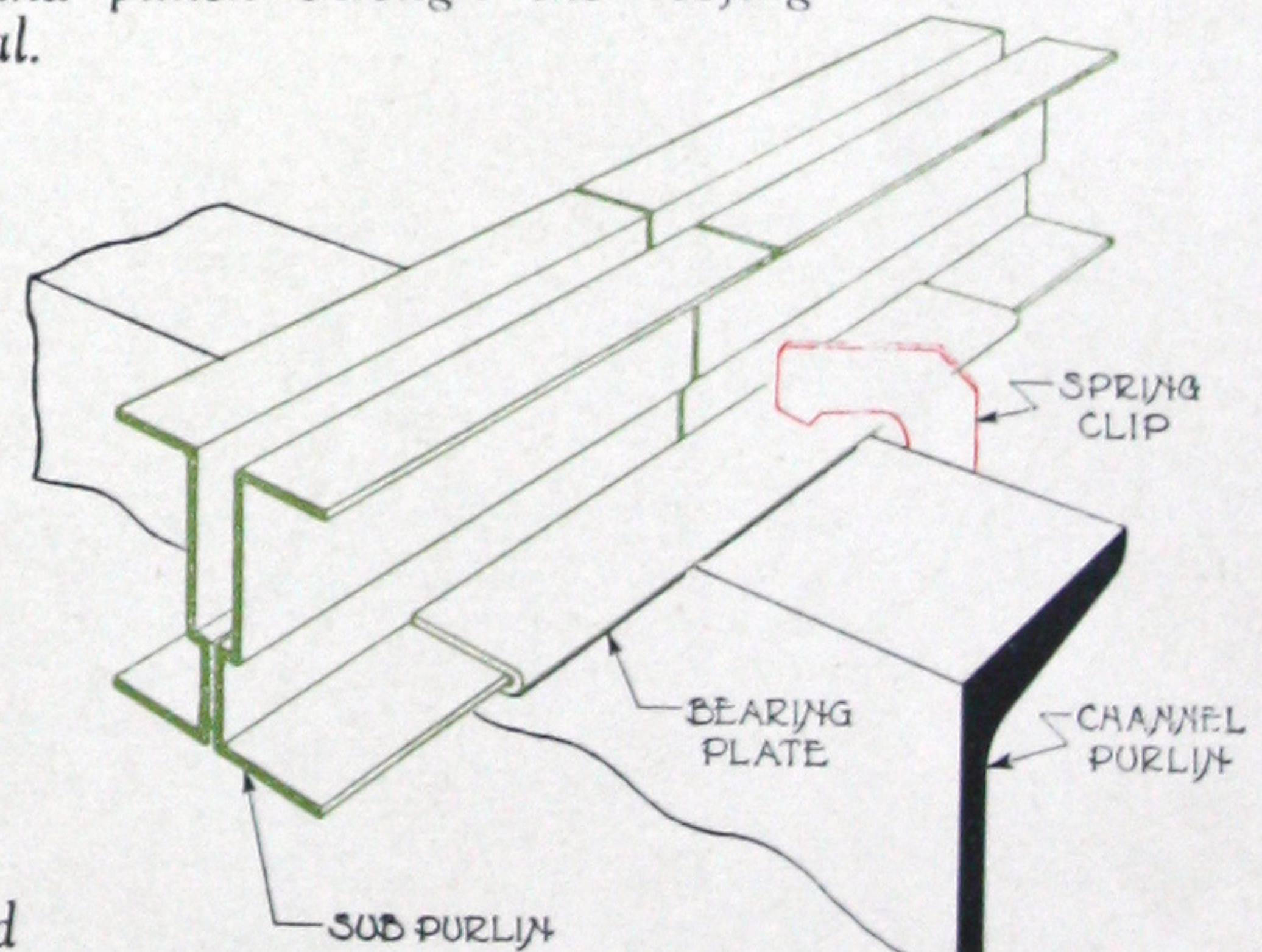


PLAN VIEW ATTACHMENT OF STEELDECK PLATES TO SUB PURLIN

"Steeldeck" is rigidly locked to the sub-purlin by the simple arrangement shown above. It is quickly fastened and permanent.



When the first coat of asphalt is applied it fills the trough of the sub-purlin forming a perfect expansion joint. No droppage of asphalt can possibly occur.



TYPICAL SPLICE DETAIL OF SUB PURLIN

The sub-purlin is spliced by this simple yet permanently effective method.

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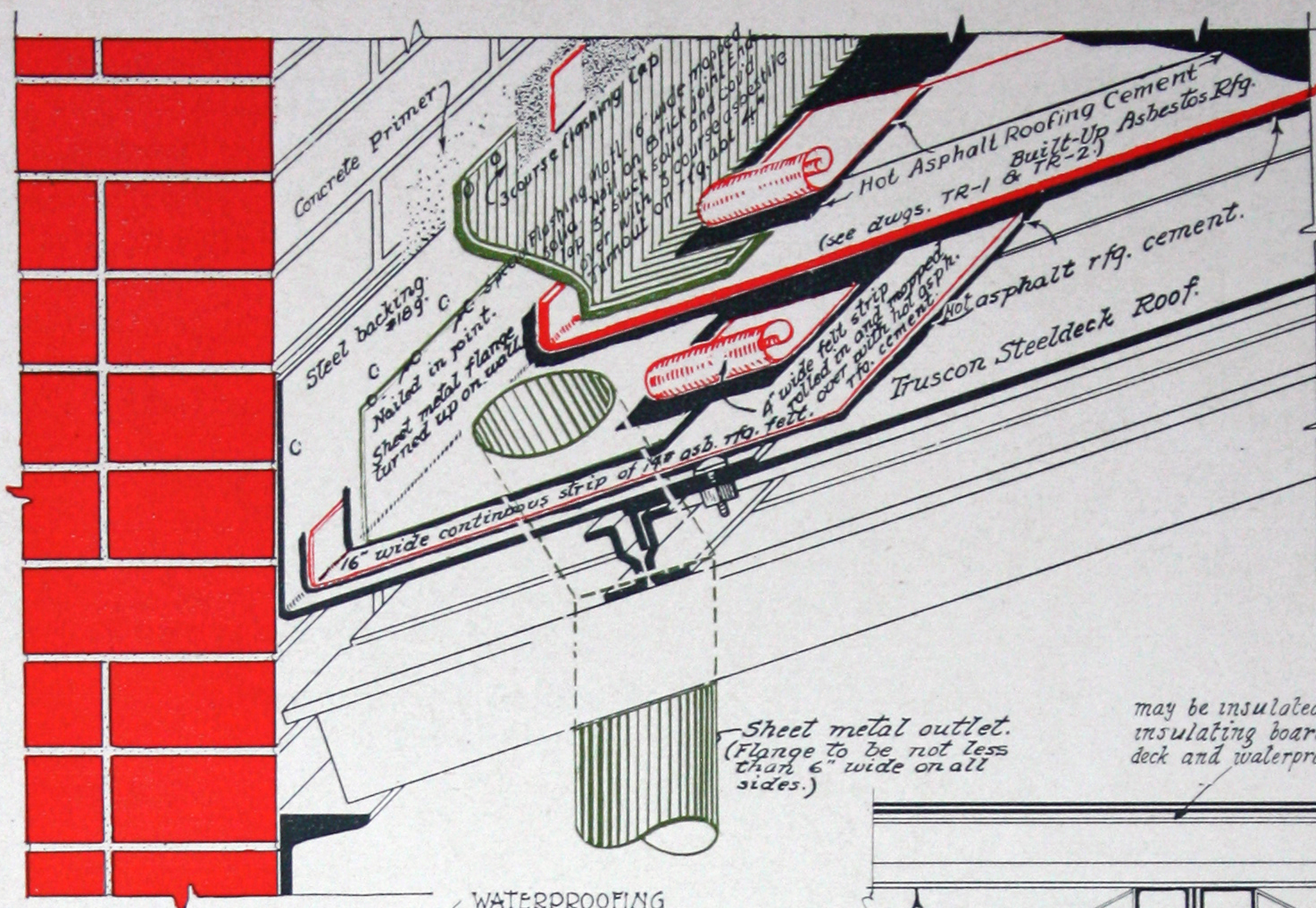
• DETAILS OF EAVE AND METHOD OF LOCKING DECK PLATES •
TRUSCON • STEELDECK • ROOFS •
• TRUSCON • STEEL • COMPANY •

• YOUNGSTOWN • OHIO •

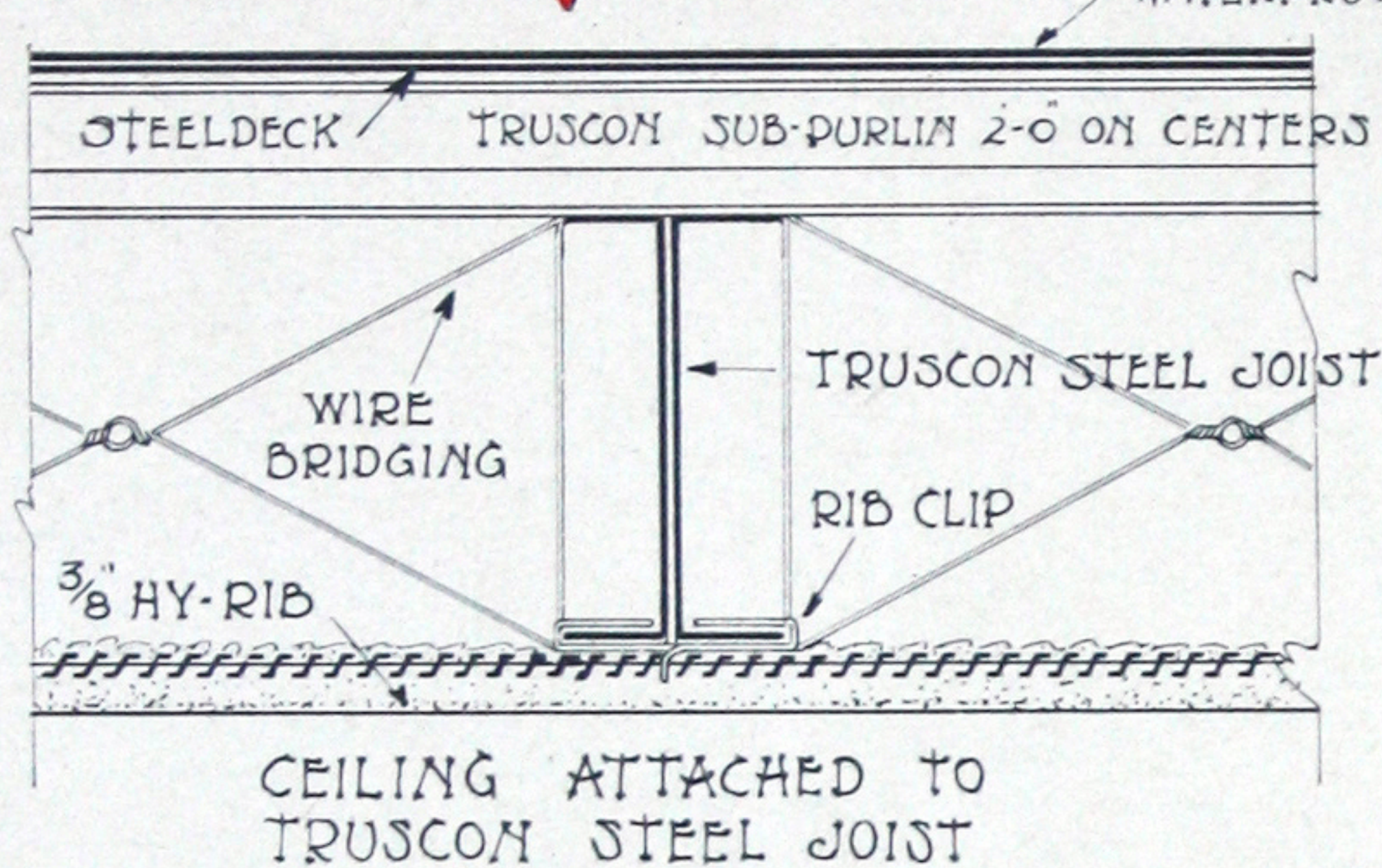
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Non-Combustible, Light and Rigid — Truscon "Steeldeck" Roofs Assure Satisfaction.

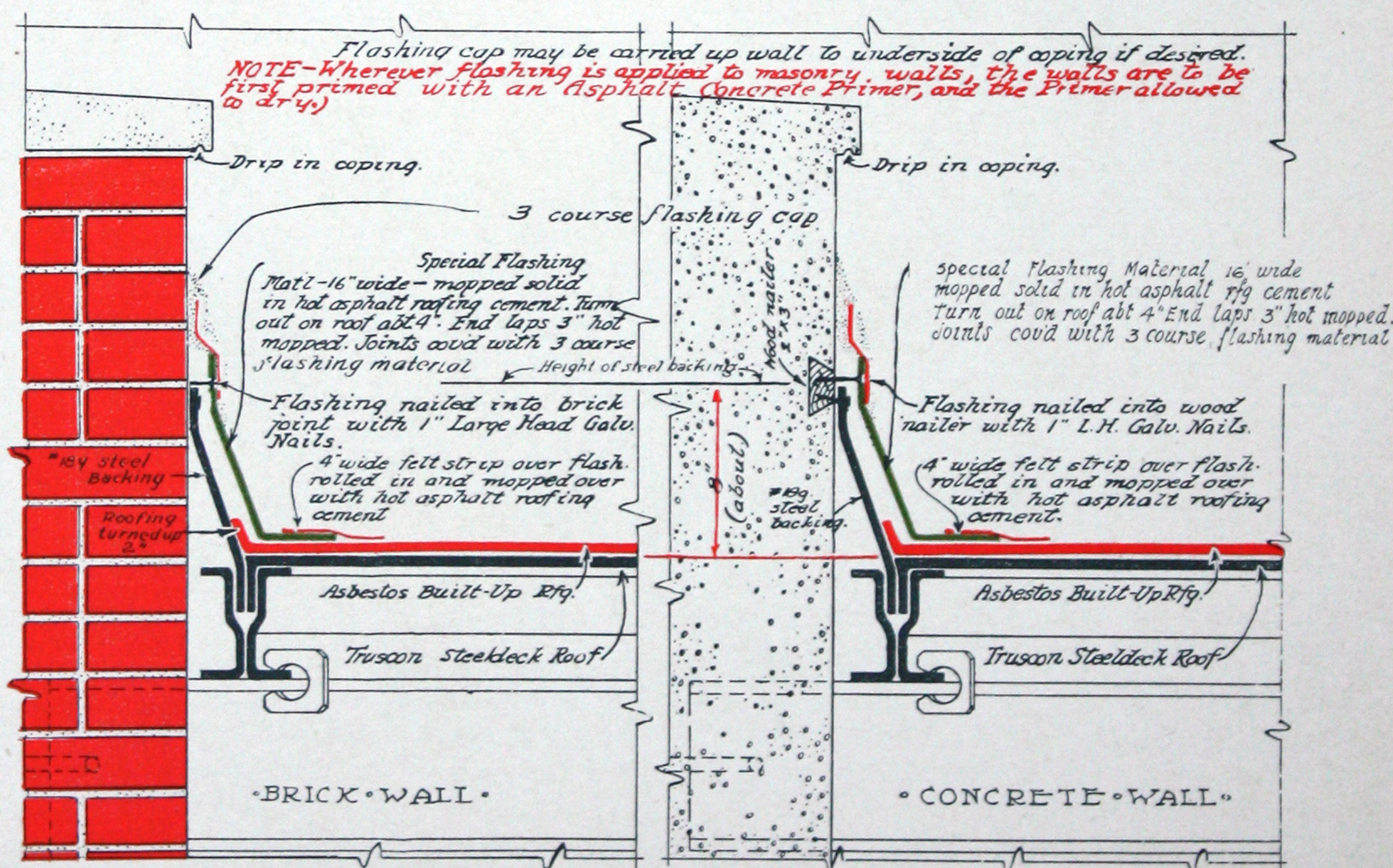
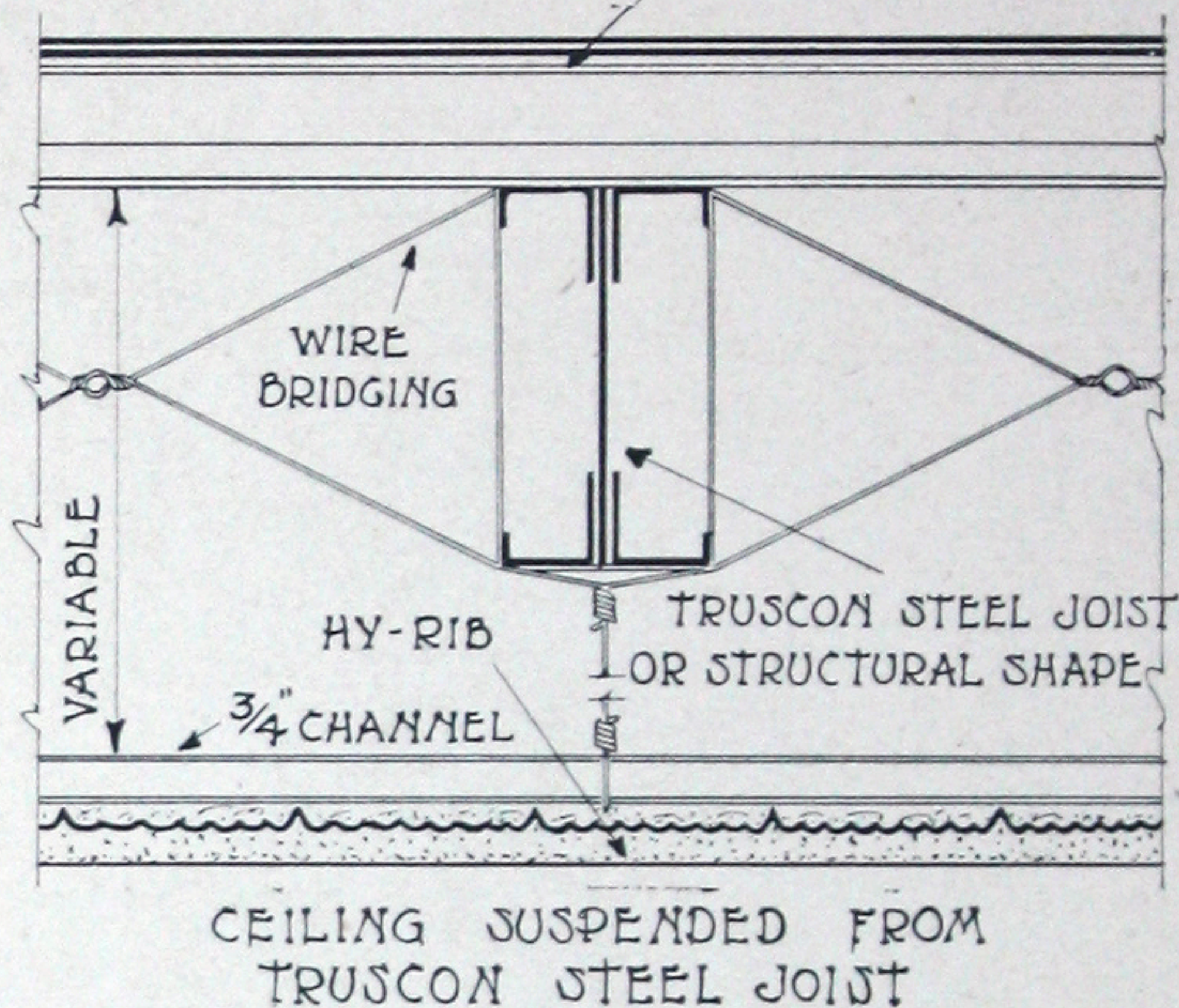
Insulating materials are placed between the surface of the "Steeldeck" roof and the built up waterproofing when conditions require the maximum conservation of heat units.



When "Steeldeck" Roofs abut parapet walls or masonry walls of other descriptions, this detail is recommended for all roof pitches.



Truscon Steel Joists are often used to support "Steeldeck" Roofs. Note simplicity of ceiling construction.



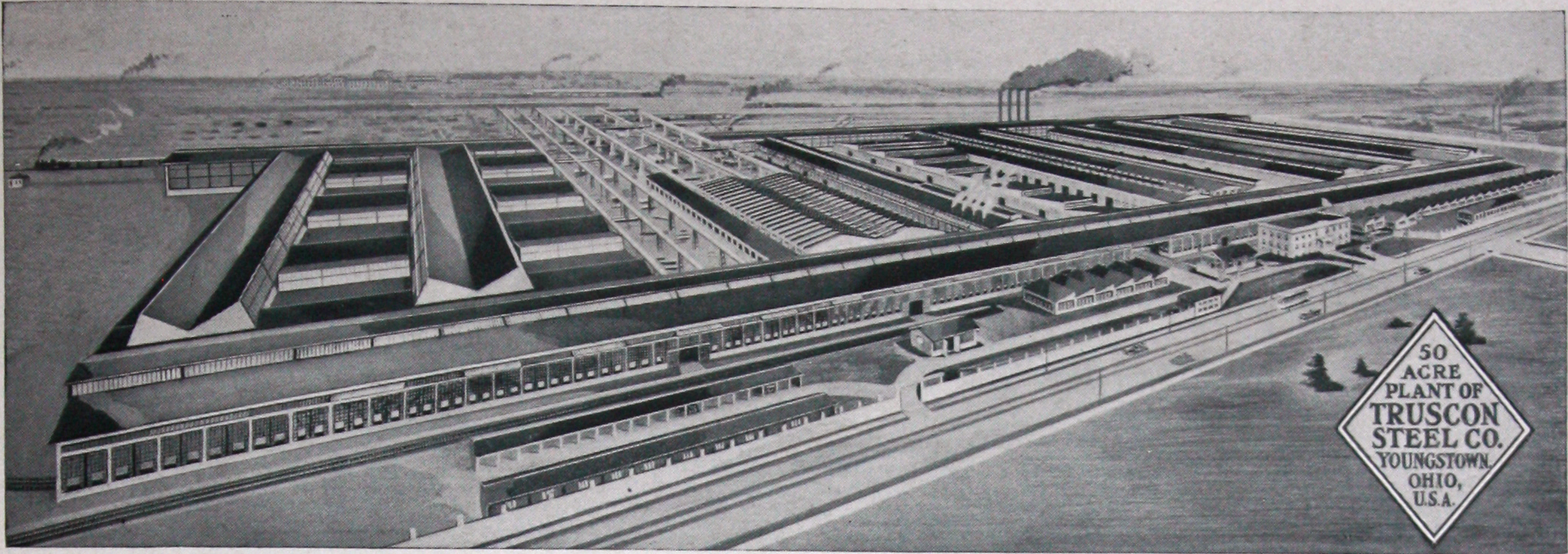
TRUSCON
"STEELDECK" ROOFS
With Built-Up Roofing

CONSTRUCTION DETAILS
TRUSCON STEELDECK ROOFS
TRUSCON STEEL COMPANY

YOUNGSTOWN, OHIO

SD-3
JAN. 1925

The Truscon "Steeldeck" Roof with Built-up Roofing is a Permanent Guardian of Property.



The Largest Manufactures of Steel Building Products in the World

Truscon's Growth Is Founded Upon Service

IN this fifty acre plant are manufactured the various Truscon Steel Building Products employed daily by architects in solving their problems of design and execution.

Twenty years have marked the continuous growth of the Truscon Steel Company from a small beginning, to world leadership in production, capacity and competence to serve. This is but the natural reflection of the well merited confidence placed in its management and product.

Truscon engineers in principal cities anywhere in the United States are in a position to supply authoritative information on building problems of every description.

Today, this company, its thousands of capable workers, its executive staff and any of its 58 branch offices are confidently placed at the disposal of our friends—the architects.

A Complete Line of Steel Building Products

Not only is Truscon able to render an invaluable service to the architect in co-operating with him on building problems of every sort, but he is offered the broadest and most complete line of permanent steel building products manufactured, for the execution of his ideas. This includes Truscon Standardized Structural Steel Trusses; "Steeldeck" Roofs; Steel Windows for

industrial, commercial and residential buildings; Hy-Rib; Metal Lath; Corner Bead; Steel Joists; Steel Channels; Reinforcing Steel; Foundry Flasks; Lift Truck Platforms; Boxes; Standard Steel Lintels and Pressed Steel Specialties for every Purpose; Steel Poles for Power Lines and Out door Sub-stations; Highway Building Products, including Reinforcing Mesh, etc.

Truscon Products of Copper Steel

COPPER STEEL is used in the manufacture of all Truscon products when required. This makes them weatherproof and insures permanence.

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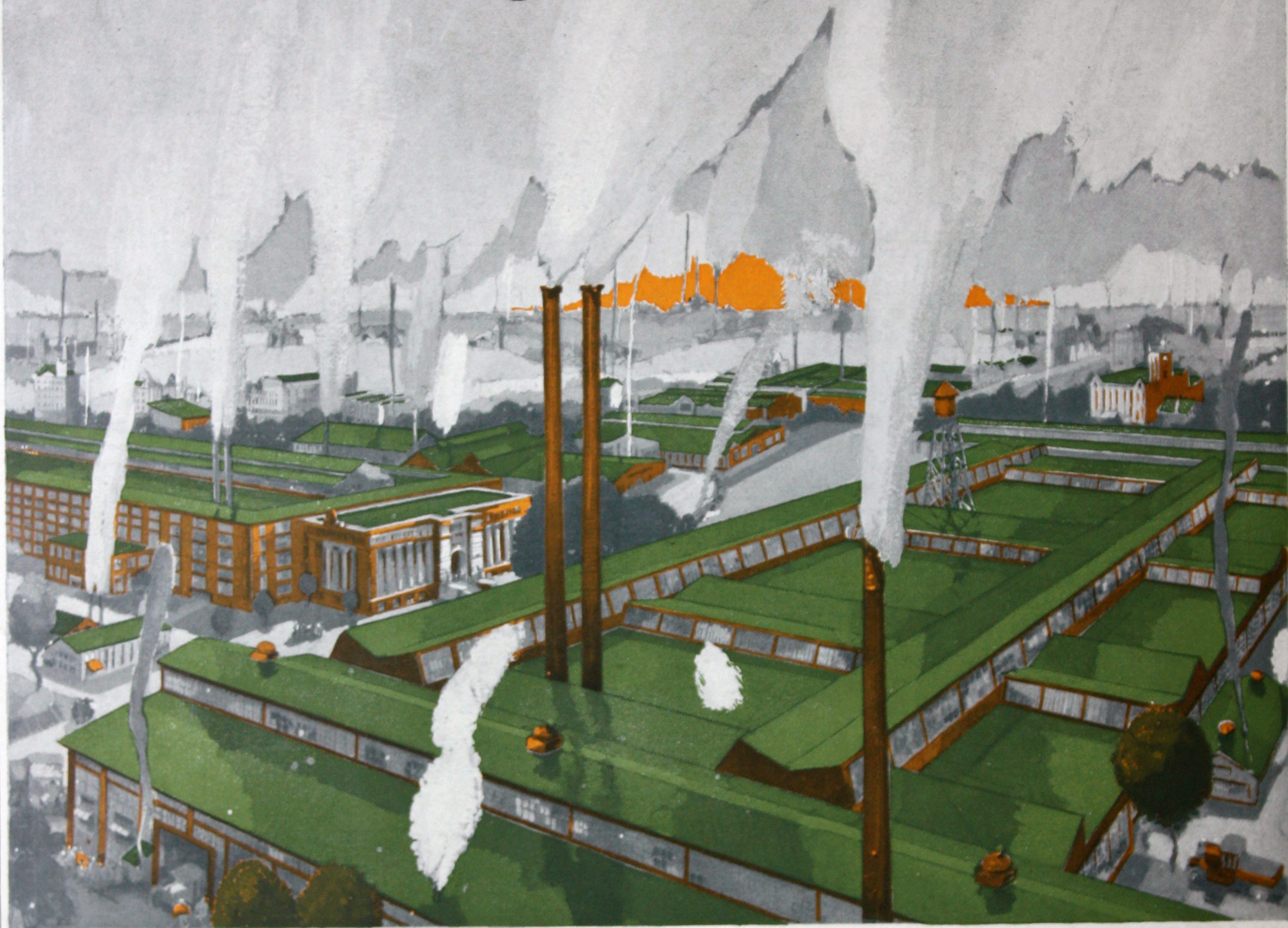
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Home Office and Factory:
YOUNGSTOWN, OHIO

TRUSCON
"STEELDECK" ROOFS
With Built-Up Roofing

ROOFS *of* SECURITY



Truscon "Steeldeck"
Roofs With
Built-Up Roofing



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